**Unit 1 Map (Microevolution)**

Ms. OK, AP Biology, 2014-2015

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| **Topic** | **Learning Target** | **DBA Score** (%) | **Test Score** (%) |
| 1. Evolution Basics | A. I can identify and provide examples of the characteristics of life. The characteristics of life are the traits that something must show to be considered a living organism. For example, all living things are made of cells. |  |  |
| B. I can describe the theory of evolution (i.e. the idea that groups of organisms change over time) and Charles Darwin’s model for the cause of evolution (i.e. natural selection). |
| C. I can describe and analyze pieces of evidence in support of the theory of evolution. |
| 2. Types of Natural Selection | D. I can define and provide examples of the types of natural selection. |  |  |
| 3. The Importance of Genetic Variation as Fuel for Natural Selection | E. I can describe the basic structure of the DNA molecule. |  |  |
| F. I can identify the four ways to increase genetic variation (i.e. changes in the DNA sequences in a population |
| G. can explain why genetic variation is important as “fuel” for natural selection. |
| 4. Hardy Weinberg Equilibrium | H. I can describe the conditions that must be met for a population to stop evolving (i.e. be in Hardy Weinberg Equilibrium). |  |  |
| I. I can use the Hardy Weinberg equations to predict future genetic frequencies in a population. |